

FIG. 1

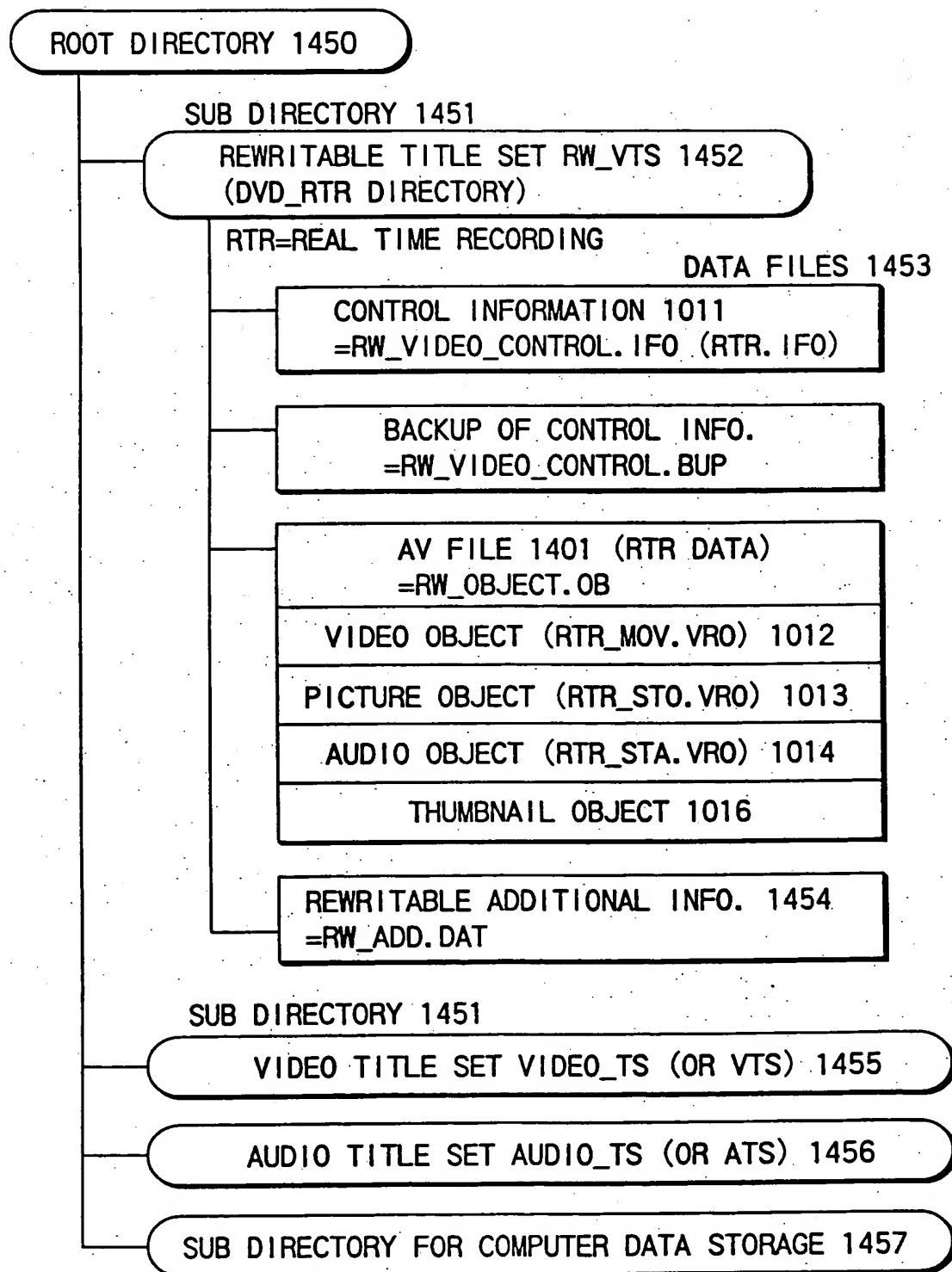


FIG. 2

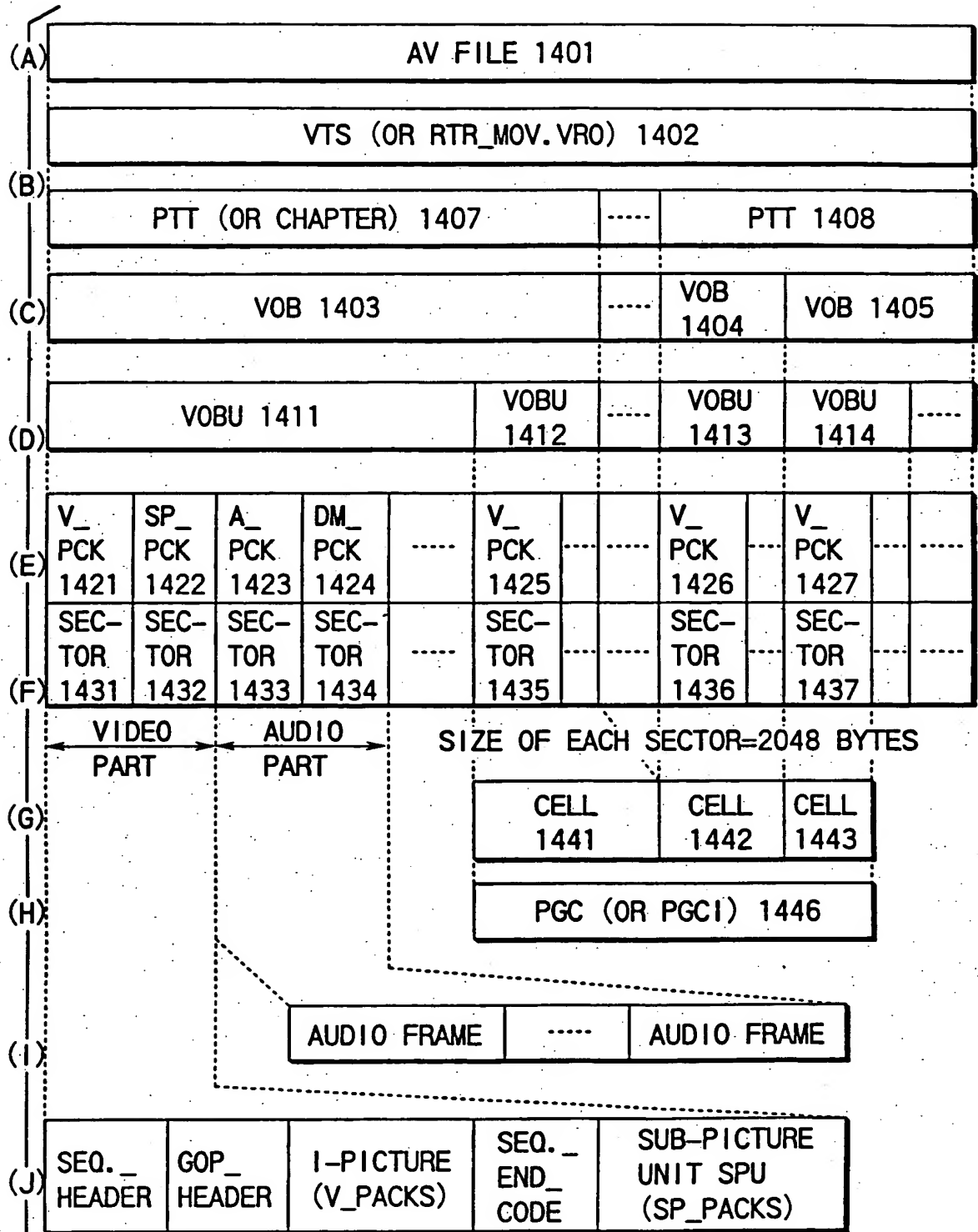


FIG. 3

←SMALLER LOGICAL SECTOR NUMBER (LSN)
←INNER SIDE OF OPTICAL DISC 1001
←LARGER LOGICAL SECTOR NUMBER (LSN) →
←OUTER SIDE OF OPTICAL DISC 1001 →

FIG. 4

CONTENTS OF ALLOCATION MAP TABLE 1105	DISTRIBUTION INFORMATION OF POSITIONS OF UNRECORDED AREA 1621	NUMBER OF EXTENTS IN UNRECORDED AREA 1601	1
		1ST ADR. (LSN) OF 1ST EXTENT IN UNRECORDED AREA 1606	e-a
		SIZE (SECTORS) OF 1ST EXTENT IN UNRECORDED AREA 1614	f-e
DISTRIBUTION INFORMATION OF POSITIONS OF RECORDED DATA AS TO VOB #1 1622	DISTRIBUTION INFORMATION OF POSITIONS OF RECORDED DATA AS TO VOB #2 1623	NUMBER OF EXTENTS IN VOB #1 1602	1
		1ST ADR. (LSN) OF 1ST EXTENT IN VOB #1 1607	b-a
		SIZE (SECTORS) OF 1ST EXTENT IN VOB #1 1615	c-b
DISTRIBUTION INFORMATION OF POSITIONS OF RECORDED DATA AS TO VOB #2 1623	DISTRIBUTION INFORMATION OF POSITIONS OF RECORDED DATA AS TO VOB #3 1624	NUMBER OF EXTENTS IN VOB #2 1603	1
		1ST ADR. (LSN) OF 1ST EXTENT IN VOB #2 1608	d-a
		SIZE (SECTORS) OF 1ST EXTENT IN VOB #2 1616	e-d
DISTRIBUTION INFORMATION OF POSITIONS OF RECORDED DATA AS TO VOB #3 1624	DISTRIBUTION INFORMATION OF POSITIONS OF RECORDED DATA AS TO VOB #3 1624	NUMBER OF EXTENTS IN VOB #3 1604	3
		1ST ADR. (LSN) OF 1ST EXTENT IN VOB #3 1609	1
		SIZE (SECTORS) OF 1ST EXTENT IN VOB #3 1617	b-a
		1ST ADR. (LSN) OF 2ND EXTENT IN VOB #3 1610	c-a
		SIZE (SECTORS) OF 2ND EXTENT IN VOB #3 1618	d-c
		1ST ADR. (LSN) OF 3RD EXTENT IN VOB #3 1611	f-a
		SIZE (SECTORS) OF 3RD EXTENT IN VOB #3 1619	g-f

FIG. 5

FIG. 5

PGC CONTROL INFO. (OR UD_PGCIT) 1103

PGC INFORMATION MANAGEMENT INFO. (OR UD_PGCIT) 1052
PGC INFORMATION SEARCH POINTER #1 (UD_PGCI_SRP#1) 1053
PGC INFORMATION SEARCH POINTER #n (UD_PGCI_SRP#n) 1054
PGC INFORMATION #1 (OR UD_PGCI#1) 1055
PGC INFORMATION #i (OR UD_PGCI#i) 1056
PGC INFORMATION #n (OR UD_PGCI#n) 1057

#i=ANY ONE OF #1 TO #n

PGC GENERAL INFO. (OR PGC_GI) 1061
PROGRAM INFO. (PGI#1)
PROGRAM INFO. (PGI#m)
CELL ID #1 (OR CI_SRP#1)
CELL ID #m 1151 (OR CI_SRP#m)
CELL INFO. (CI#1)
CELL INFO. (CI#n)

- *1> PGC INFORMATION (OR UD_PGCI) CAN DEFINE
A GROUP OF ONE OR MORE PROGRAMS;
- *2> EACH PROGRAM CAN BE FORMED OF ONE OR MORE CELLS;
- *3> EACH CELL CAN BE SPECIFIED BY CELL ID (OR CI_SRP);
- *4> EACH CELL ID (OR CI_SRP) CAN INDICATE POSITION
(OR START ADDRESS) OF CELL INFORMATION (OR CI);
- *5> EACH CELL INFORMATION (OR CI) CAN DETERMINE
START TIME AND END TIME OF PRESENTATION OF CELL

FIG. 6

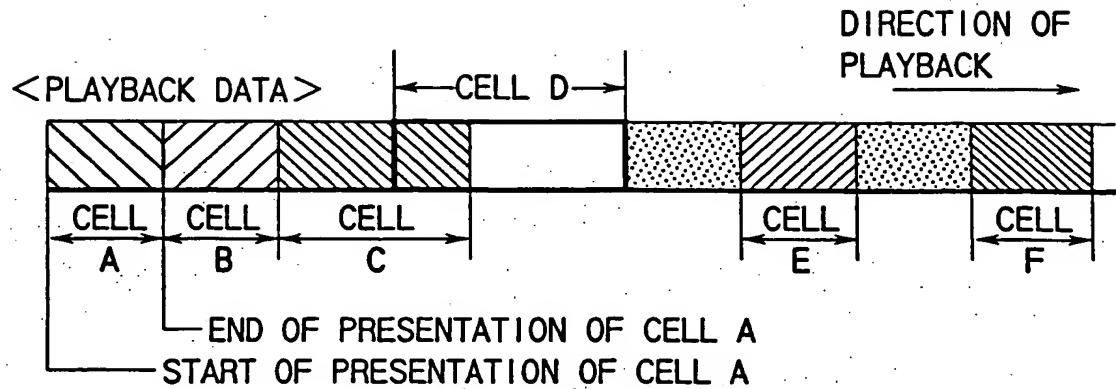


FIG. 7A

PGC INFORMATION (PGCI)

PGC#1 1081		PGC#2 1082		PGC#3 1083	
NUMBER OF CELLS=3		NUMBER OF CELLS=3		NUMBER OF CELLS=5	
#1	CELL A	#1	CELL D	#1	CELL E
#2	CELL B	#2	CELL E	#2	CELL A
#3	CELL C	#3	CELL F	#3	CELL D
—	—	—	—	#4	CELL B
—	—	—	—	#5	CELL E
CELL ID	CELL INFO.	CELL ID	CELL INFO.	CELL ID	CELL INFO.
CI_SRP #m=3	CI #n=3	CI_SRP #m=3	CI #n=3	CI_SRP #m = 5	CI #n=4

FIG. 7B

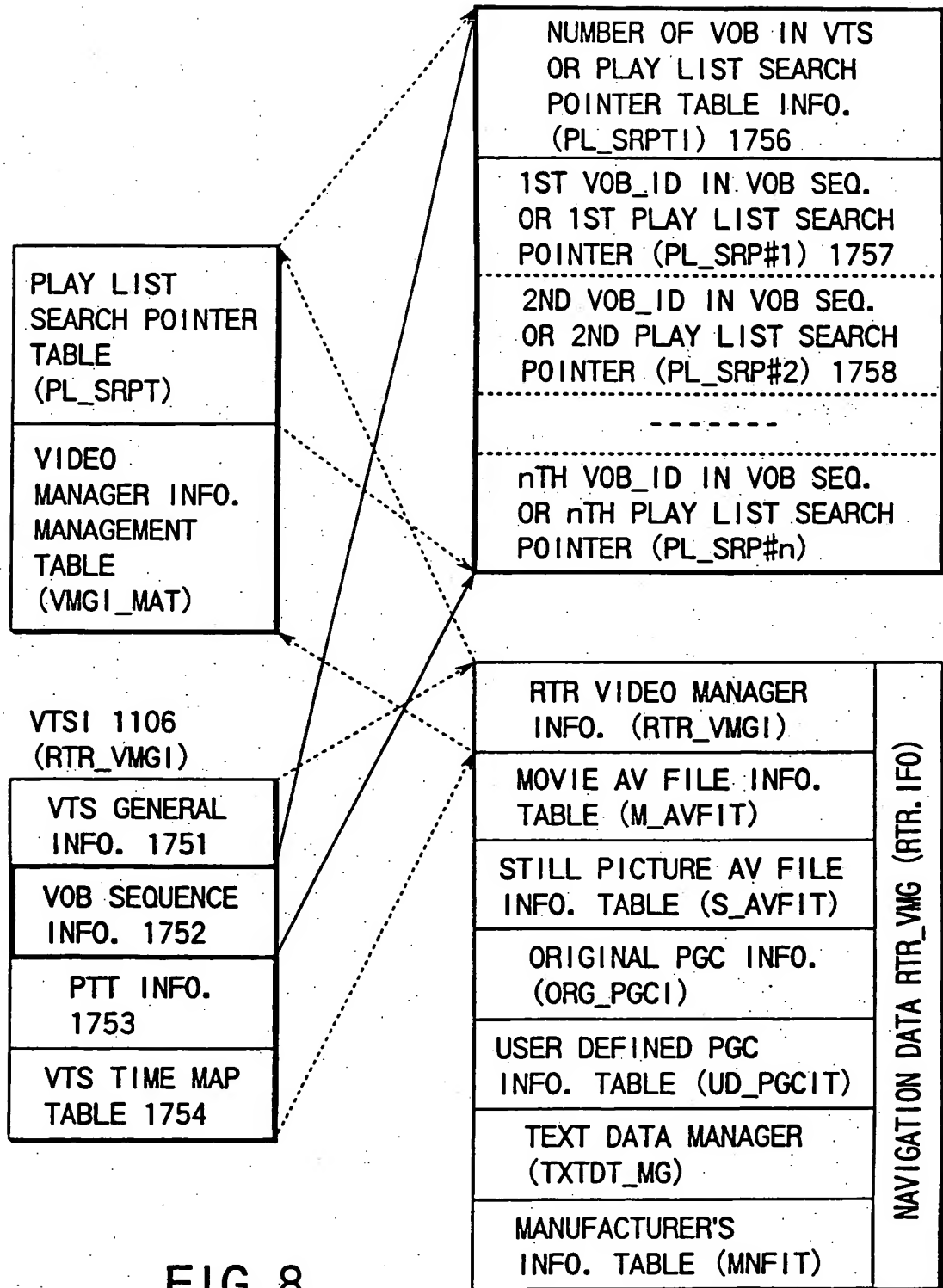


FIG. 8

FIG. 9A

AV FILE 1401

FIG. 9B

VTS (OR RTR_MOV.VR0) 1402

FIG. 9C

VOB#1 1461	VOB#2 1462	VOB#3 1763	UNRECORDED AREA 1460
EXTENT# α 1471	EXTENT# β 1472	EXTENT# γ 1473	EXTENT# ϵ 1475
		EXTENT# δ 1474	EXTENT# ζ 1470

FIG. 9D

AV FILE 1401

FIG. 9E

VTS (OR RTR_MOV.VR0/RTR_STO.VR0/RTR_STA.VR0) 1402

FIG. 9F

M_VOB1#		S_VOB1#			
VOB#A 1771	VOB#B 1772	VOB#C 1773	VOB#D 1774	VOB#E 1775	VOB#F 1776
VIDEO OBJECTS 1012	AUDIO OBJECTS 1014	PICTURE OBJECTS 1013	AUDIO OBJECTS 1014	THUMBNAIL OBJECTS 1016	VOB#G 1777
					VOB#H 1778
					VOB#I 1779
RTR_MOV.VR0	RTR_STA.VR0	RTR_STO.VR0	RTR_STA.VR0		

FIG. 10A

VOB FOR PICTURE OBJECTS (OR STILL PICTURE VOB GROUP RELATING TO S_VOGL#) 1631

FIG. 10B

VOBU (FOR ONE STILL PICTURE) 1641

FIG. 10C

V_PCK 1661	V_PCK 1662	V_PCK 1663	SP_PCK 1681	A_PCK 1691	A_PCK 1692
I-PICTURE 1706		DUMMY DATA	SP_STREAM	A_STREAM	A_STREAM

← VIDEO PART → → AUDIO PART →

FIG. 10D

VOB FOR PICTURE OBJECTS (OR STILL PICTURE VOB GROUP RELATING TO S_VOGL#) 1632

FIG. 10E

VOBU(ONE STILL PICT.) 1642	VOBU 1643	VOBU 1644
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FIG. 10F

V_PCK 1664	SP_PCK 1682	A_PCK 1693	V_PCK 1665	A_PCK 1694	V_PCK 1666	V_PCK 1667	A_PCK 1695
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FIG. 10G VOB FOR PICTURE OBJECTS (OR STILL PICTURE VOB GROUP RELATING TO S_VOGI#) 1633

VOBU (ONE STILL PICTURE) 1645			VOBU 1646	-----	VOBU 1647
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V_PCK 1668	V_PCK 1669	V_PCK 1670	SP_PCK 1683	V_PCK 1671	V_PCK 1672	V_PCK 1673	-----	V_PCK 1674	-----
I-PICTURE 1707		DUMMY 1704	SP_ STREAM	I-PICTURE 1708		DUMMY 1705	-----	I-PICTURE 1709	



FIG. 10I

FIG. 10J VOB FOR PICTURE OBJECTS (OR STILL PICTURE VOB GROUP RELATING TO S_VOGI#) 1634

VOBU (ONE STILL PICTURE) 1648			VOBU 1649	-----	VOBU 1650
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SP_PCK 1684	A_PCK 1696	A_PCK 1697	A_PCK 1698	A_PCK 1699	A_PCK 1700	A_PCK 1701	-----	A_PCK 1702	-----
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FIG. 10L

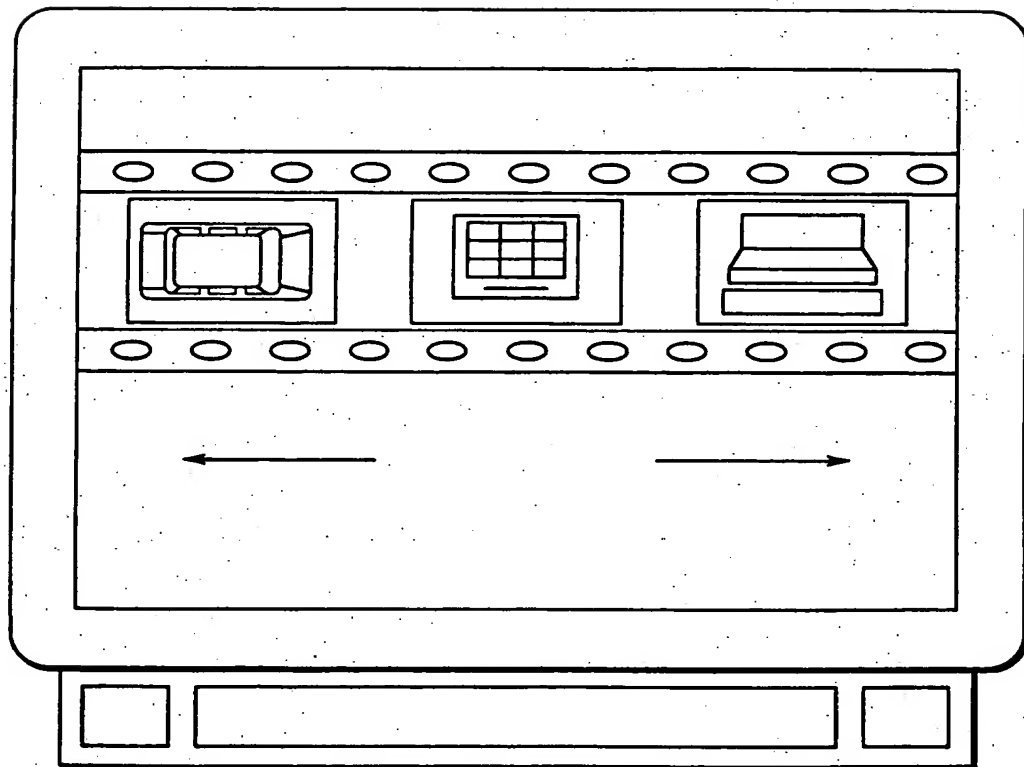
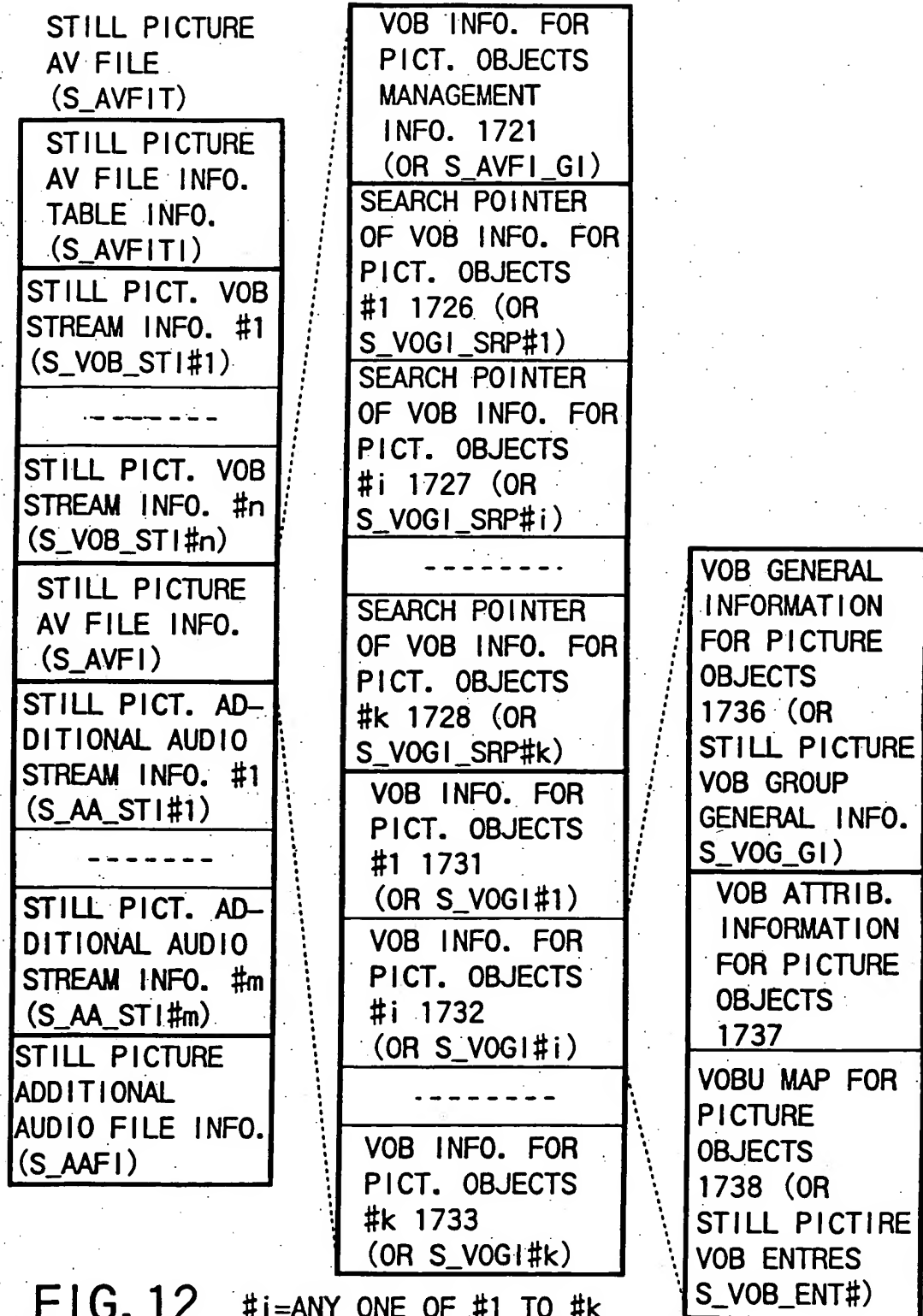


FIG. 11



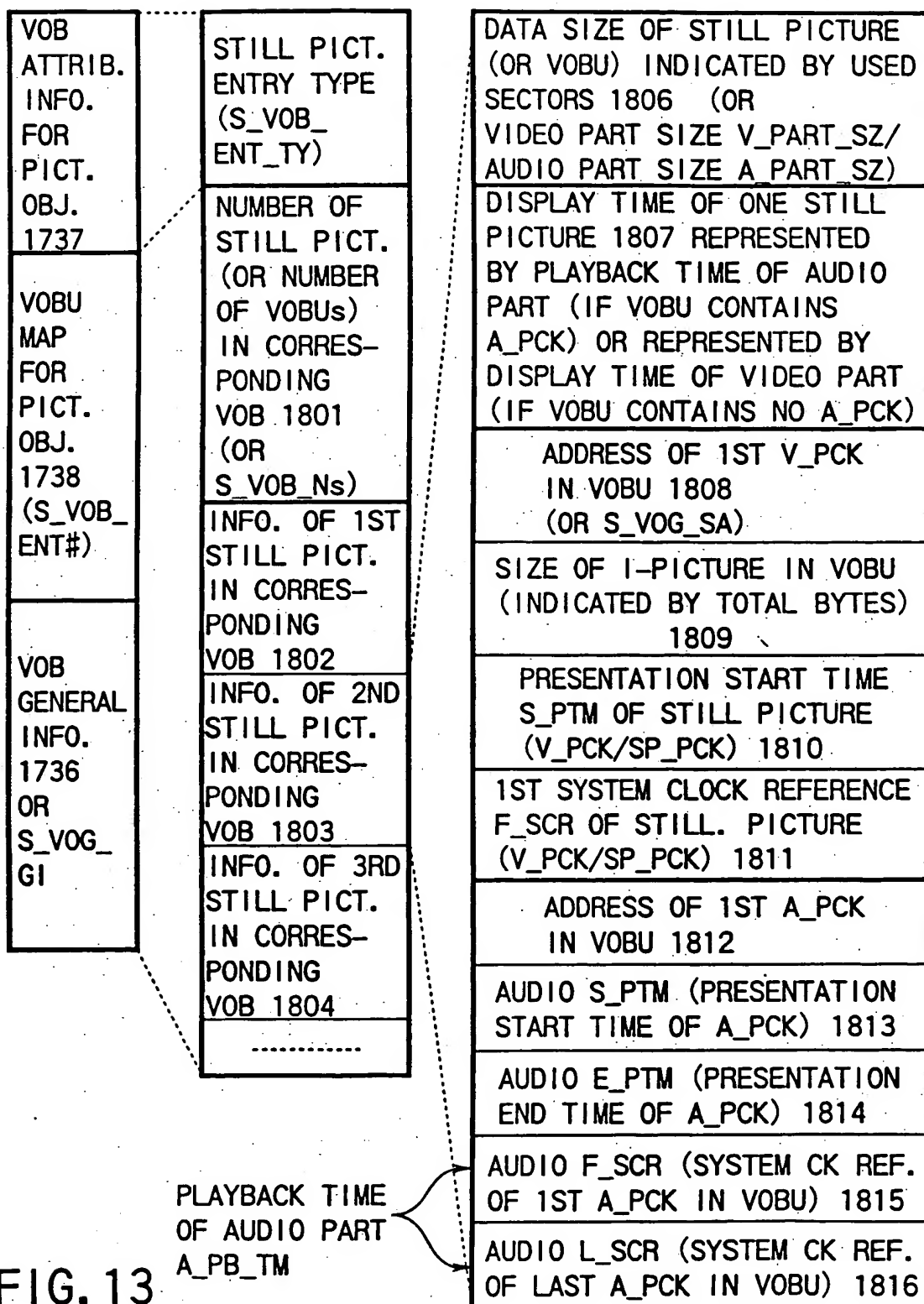


FIG. 13

FIG. 14A

VOB #A 1821	
VOBU 1825	VOBU 1826
STILL PICT. NO. 1	STILL PICT. NO. h

FIG. 14B

VOBU 1825	VOBU 1826	VOBU 1827
STILL PICT. NO. 1	STILL PICT. NO. 2	STILL PICT. NO. h

FIG. 14C

STLPCT 1831	AUDIO 1841	STLPCT 1832	AUDIO 1842	STLPCT 1833	AUDIO 1843
V_PCK 1851	A_PCK 1861	V_PCK 1852	SP_PK 1848	V_PCK 1853	A_PCK 1863

FIG. 14D

CONTENTS SPECIFIED BY CELL		1ST STILL PICT. IN CELL		LAST STILL PICT. IN CELL	
V_PCK 1852	SP_PK 1848	A_PCK 1865	V_PCK 1853	V_PCK 1854	A_PCK 1866

FIG. 14E

A_PCK 1864	V_PCK 1855	A_PCK 1865	V_PCK 1856	V_PCK 1857	A_PCK 1866	V_PCK 1858
AUDIO 1844	STLPCT 1835	AUDIO 1845	STLPCT 1836	STLPCT 1837	AUDIO 1846	STLPCT 1838

FIG. 14F

STILL PICTURE NO. j	STILL PICTURE NO. h+j-2
VOBU 1828	VOBU 1829

FIG. 14G

VOB #B 1822	
STILL PICTURE NO. j	STILL PICTURE NO. h+j-2
VOBU 1828	VOBU 1829

CONTENTS (S_CI) OF CELL PLAYBACK INFO. (CI) FOR PICTURE OBJECTS 1870	EXAMPLE 1871 WITH RESPECT TO FIG.14	EXAMPLE 1872 WITH RESPECT TO FIG.14
CELL ID (CI_SRP) 1873	_____	_____
TYPE INFORMATION OF CELL (C_TY) 1880	_____	_____
ID INFORMATION OF VOB WITH V_PCK 1874	VOB #A	1821
STILL PICT. NUMBER 1875 IN VOB INCLUDING V_PCK OF 1ST STILL PICTURE IN CELL (S_S_VOB_ENTN)	2	1826
STILL PICT. NUMBER 1876 IN VOB INCLUDING V_PCK OF LAST STILL PICTURE IN CELL (E_S_VOB_ENTN)	h	1827
ID INFORMATION OF VOB WITH A_PCK 1877	VOB #B	1822
STILL PICT. NUMBER 1878 IN VOB INCLUDING A_PCK OF 1ST STILL PICTURE IN CELL	j	1828
PRESENTATION TIME 1879 OF EACH STILL PICTURE HAVING NO CORRESPONDING A_PCK	2 SECONDS (ONE LINE)	_____

FIG.15

CONTENTS OF CELL PLAYBACK INFO. (CI) FOR PTT
CELL ID (CI_SRP) 1883
TYPE INFO. OF CELL (C_TY) 1882
ID INFO. OF PTT WITH V_PCK 1884
STILL PICTURE NUMBER 1885 IN PTT OF VOB INCLUDING V_PCK OF 1ST STILL PICTURE IN CELL
STILL PICTURE NUMBER 1886 IN PTT OF VOB INCLUDING V_PCK OF LAST STILL PICTURE IN CELL
ID INFO. OF PTT WITH A_PCK 1887
STILL PICTURE NUMBER 1888 IN PTT OF VOB INCLUDING A_PCK OF 1ST STILL PICTURE IN CELL
PRESENTATION TIME 1889 OF EACH STILL PICT. HAVING NO CORRESPONDING A_PCK

FIG. 16

STILL PICTURE AV FILE INFO.
(S_AVFI) FOR PTT (CHAPTER)

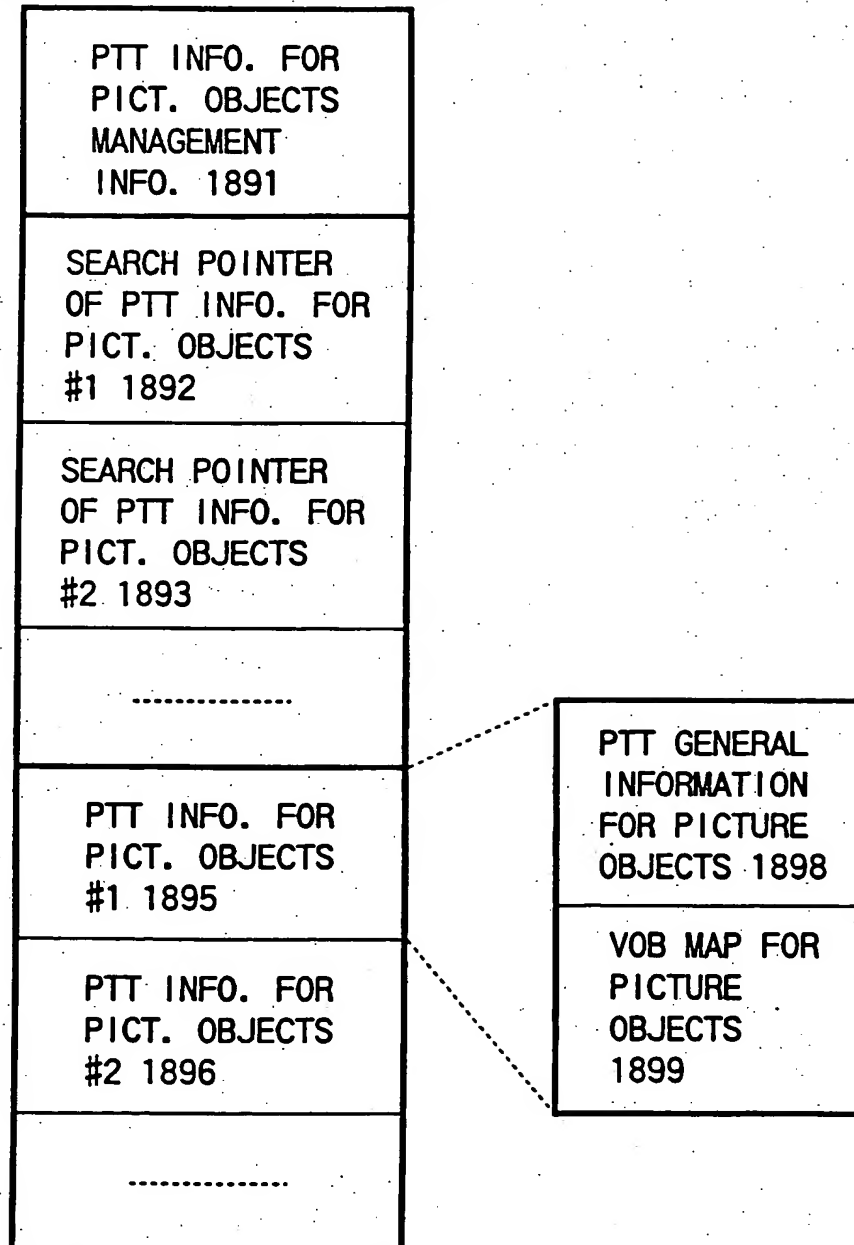


FIG. 17

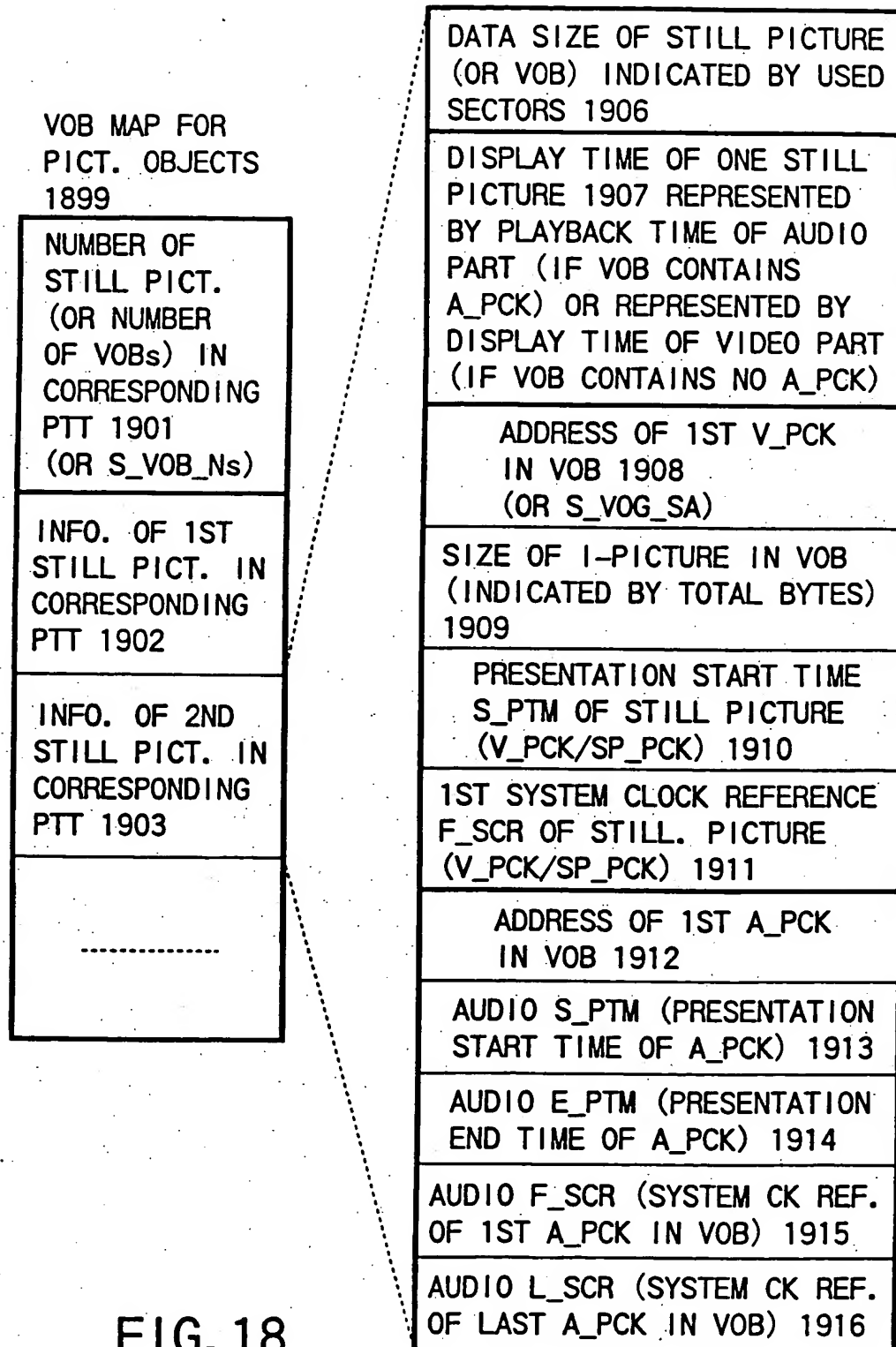


FIG. 18

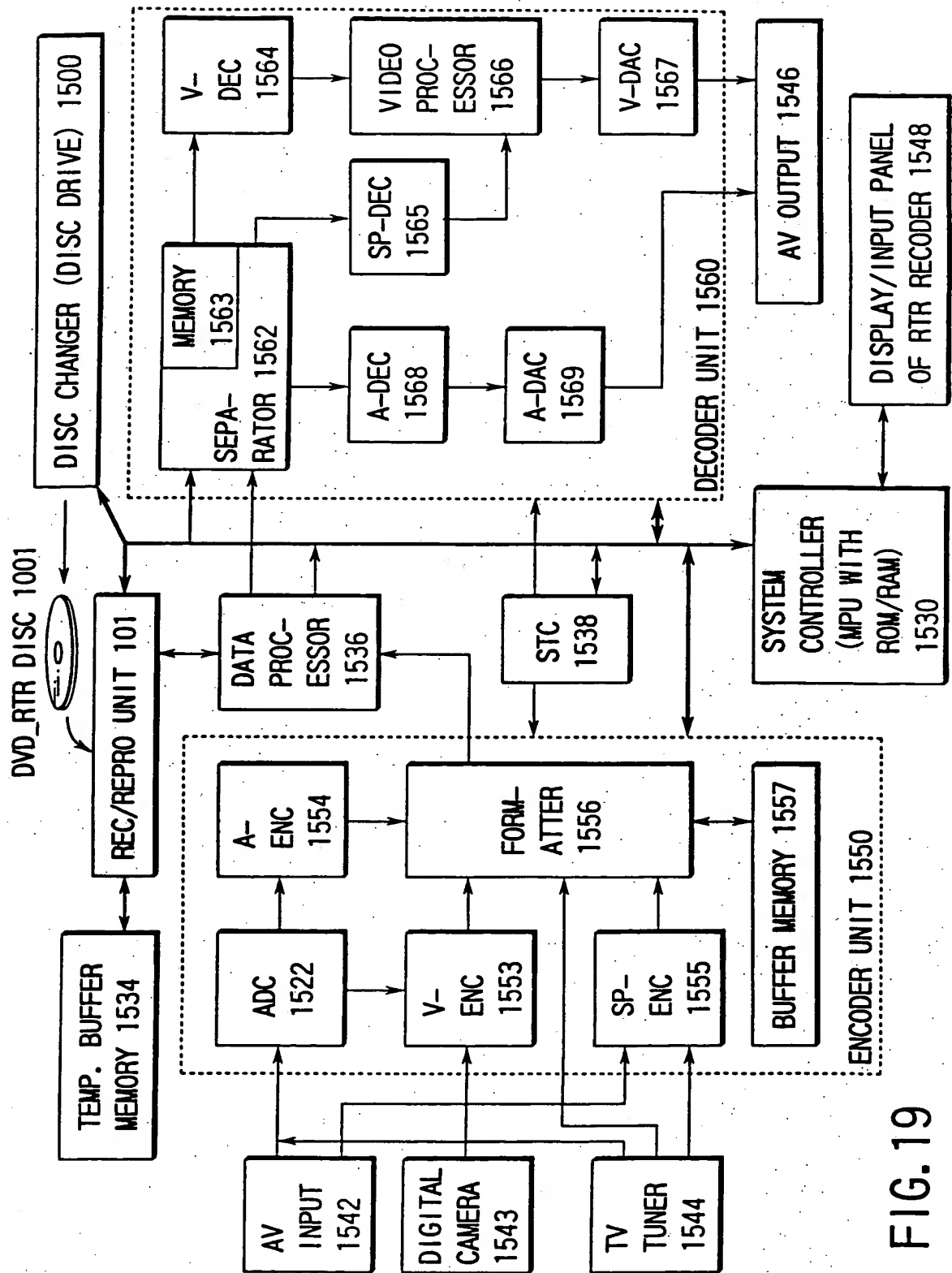


FIG.19

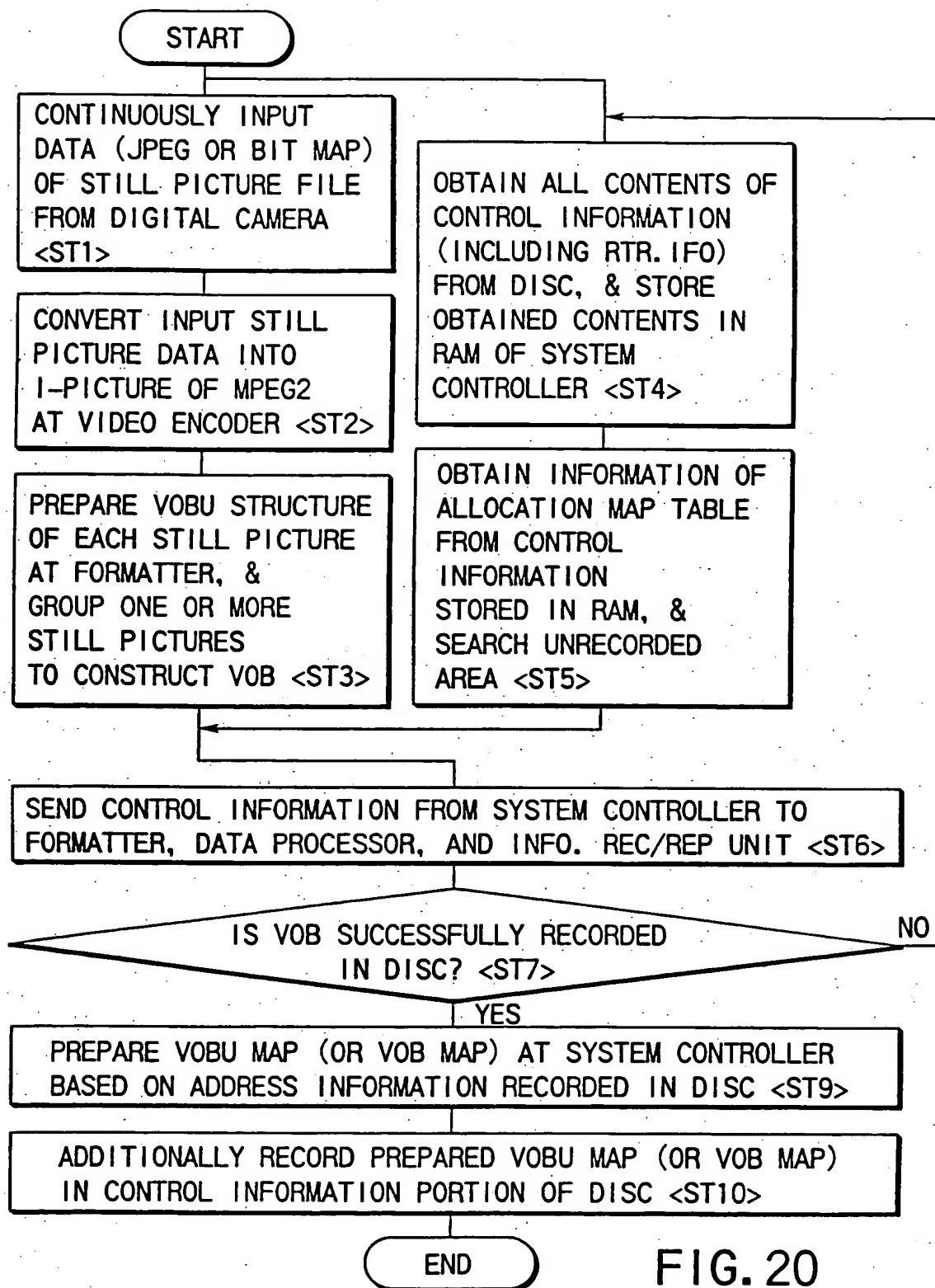


FIG. 20

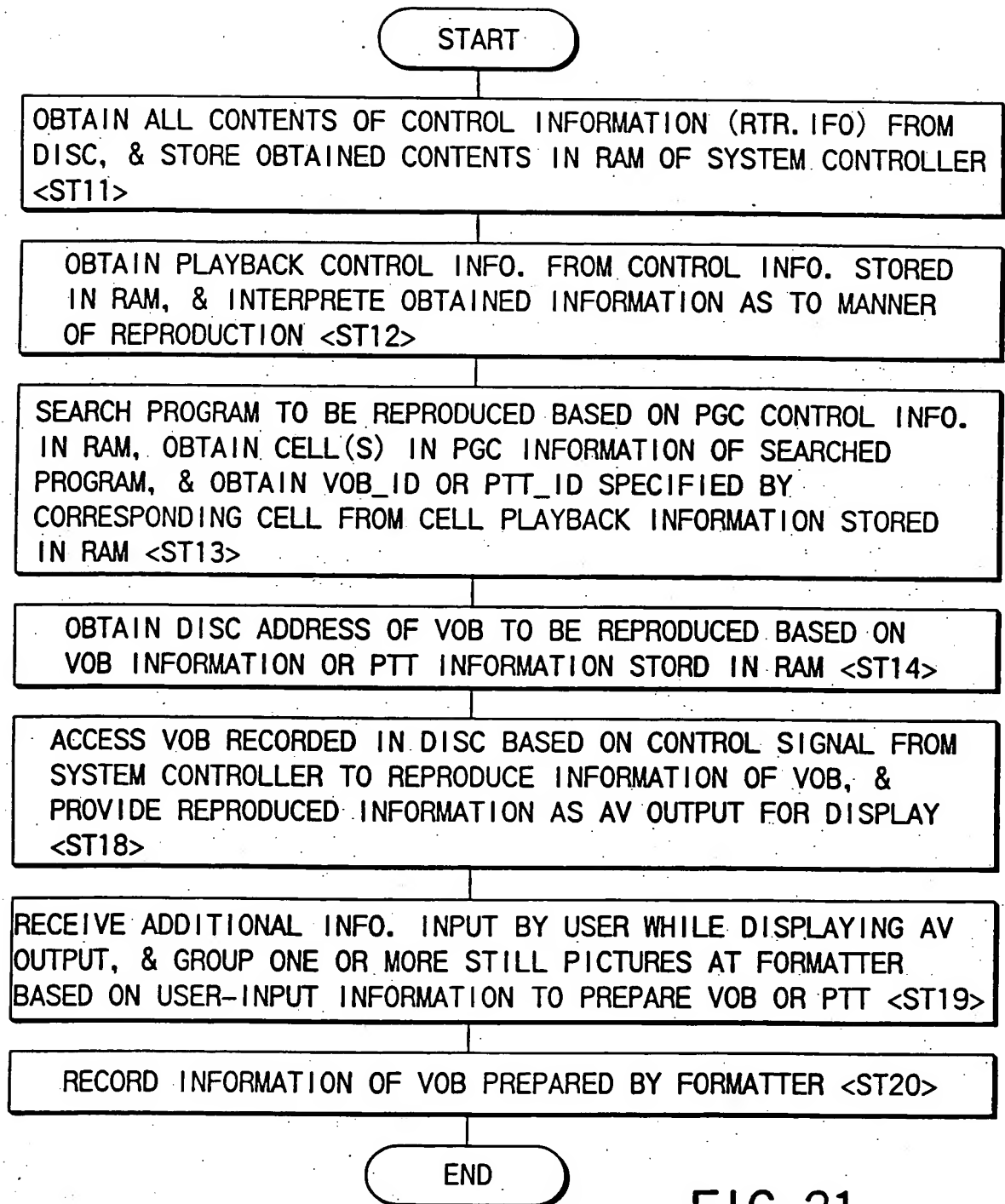


FIG. 21

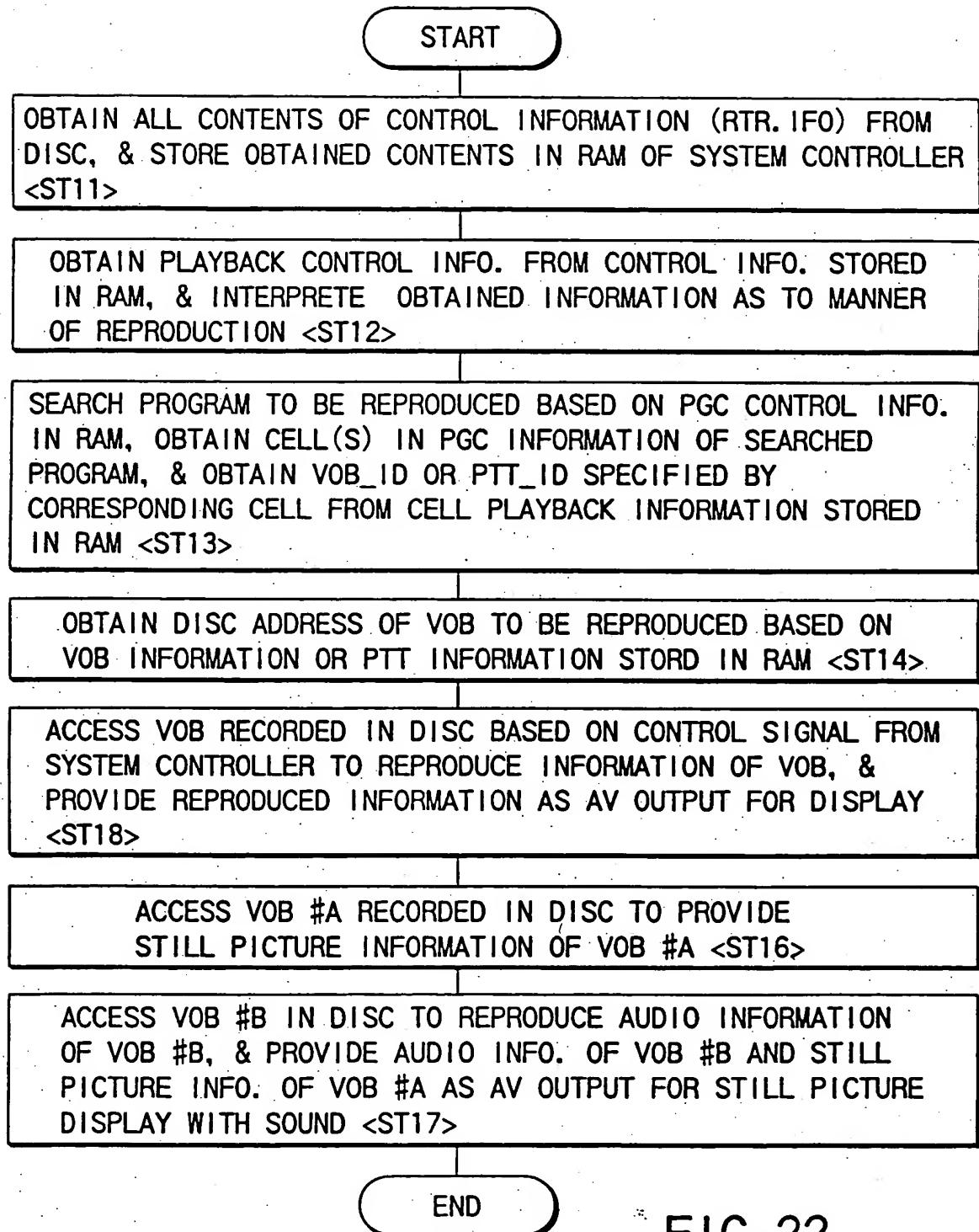


FIG. 22

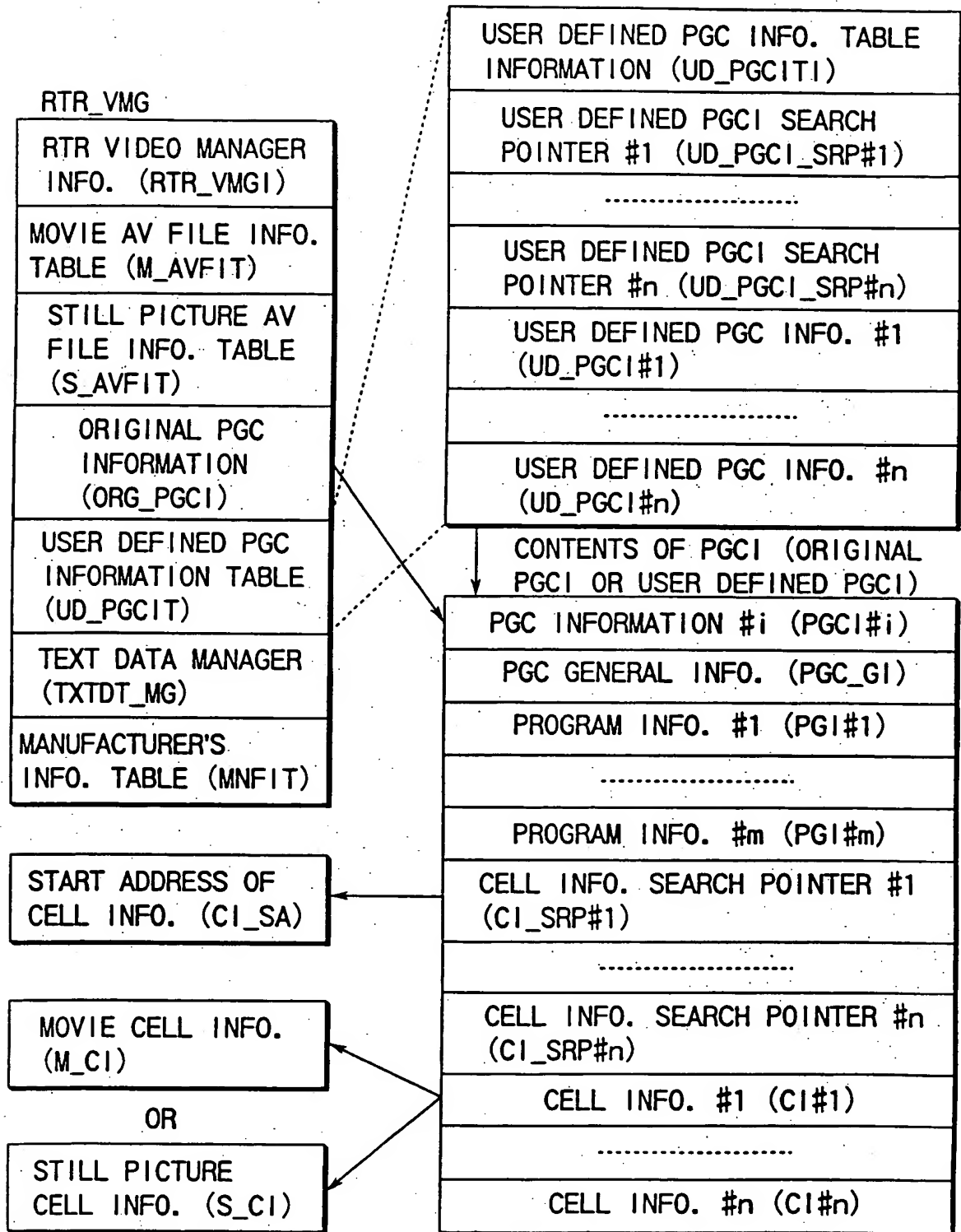


FIG. 23

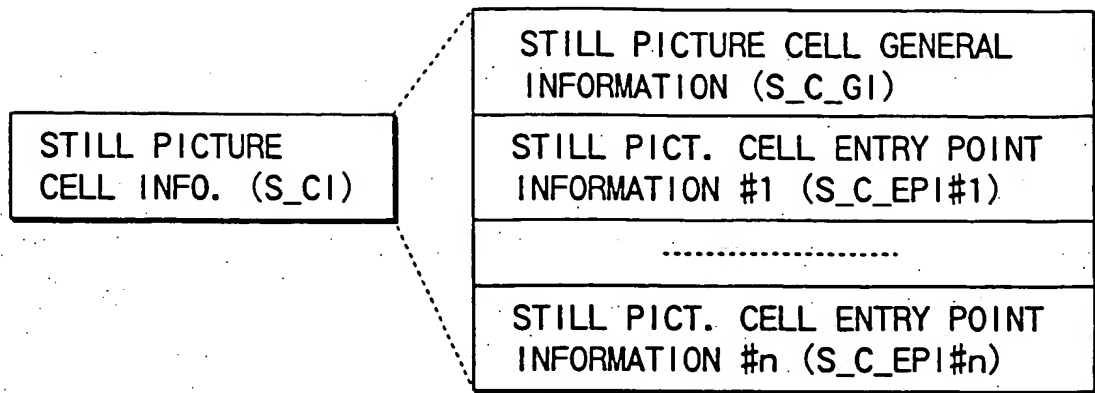


FIG. 24

CONTENTS OF S_C_GI

FIELD NAME	CONTENTS
RESERVED	RESERVED
C_TY	CELL TYPE
S_VOI_SRPN	S_VOI SEARCH POINTER NUMBER
C_EPI_Ns	NUMBER OF CELL ENTRY POINT INFO.
S_S_VOB_ENTN	START S_VOB_ENT NUMBER
E_S_VOB_ENTN	END S_VOB_ENT NUMBER

FIG. 25

CONTENTS OF S_C_EPI

FIELD NAME	CONTENTS
EP_TY	ENTRY POINT TYPE
S_VOB_ENTN	S_VOB_ENT NUMBER
PRM_TXTI	PRIMARY TEXT INFORMATION

FIG. 26

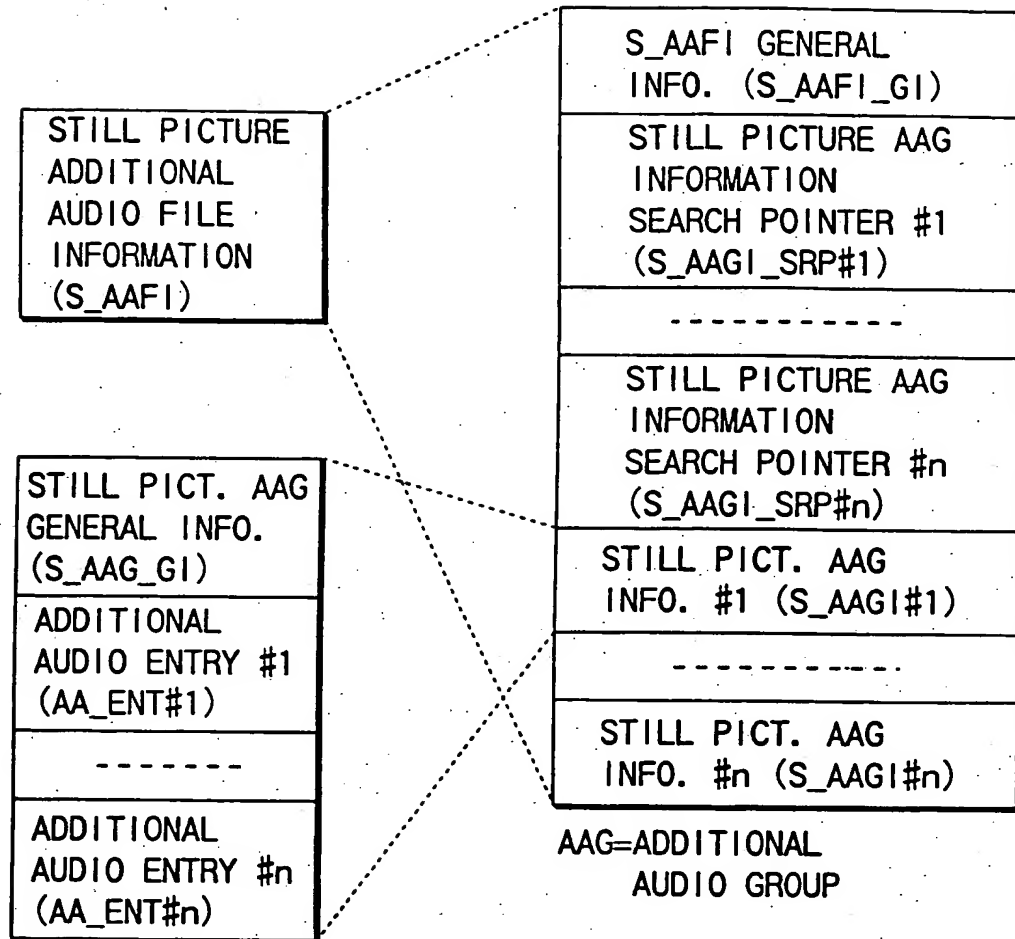


FIG. 27

CONTENTS OF S_AAG_GI

FIELD NAME	CONTENTS
AA_ENT_Ns	NUMBER OF AA_ENT
S_AA_STIN	STILL PICTURE ADDITIONAL AUDIO STREAM INFORMATION NUMBER
S_AAG_SA	START ADDRESS OF THIS AAG IN STILL PICTURE ADDITIONAL AUDIO FILE

FIG. 28

CONTENTS OF AA_ENT

FIELD NAME	CONTENTS
AA_TY	ADDITIONAL AUDIO TYPE
AA_SZ	SIZE OF ADDITIONAL AUDIO STREAM
AA_PB_TM	PLAYBACK TIME OF ADDITIONAL AUDIO STREAM (MEASURED BY VIDEO FIELDS)

FIG. 29

CONTENTS OF S_VOG_GI

FIELD NAME	CONTENTS
S_VOB_Ns	NUMBER OF S_VOBS
S_VOB_STIN	STILL PICTURE VOB STREAM INFORMATION NUMBER
FIRST_VOB_REC_TM	TIME WHEN THE FIRST VOB IN THIS VOB GROUP WAS RECORDED
LAST_VOB_REC_TM	TIME WHEN THE LAST VOB IN THIS VOB GROUP WAS RECORDED
S_VOG_SA	START ADDRESS OF THIS VOB GROUP IN STILL PICTURE AV FILE

FIG. 30

CONTENTS OF S_VOB_ENT (TYPE 1)

FIELD NAME	CONTENTS
S_VOB_ENT_TY	STILL PICTURE VOB ENTRY TYPE
V_PART_SZ	SIZE OF VIDEO PART

FIG. 31

CONTENTS OF S_VOB_ENT (TYPE 2)

FIELD NAME	CONTENTS
S_VOB_ENT_TY	STILL PICTURE VOB ENTRY TYPE
V_PART_SZ	SIZE OF VIDEO PART
A_PART_SZ	SIZE OF ORIGINAL AUDIO PART
A_PB_TM	PLAYBACK TIME OF AUDIO PART (DESCRIBED IN VIDEO FIELDS)

FIG. 32

CONTENTS OF S_VOB_ENT (TYPE 3)

FIELD NAME	CONTENTS
S_VOB_ENT_TY	STILL PICTURE VOB ENTRY TYPE
V_PART_SZ	SIZE OF VIDEO PART
S_AAGN	ADDITIONAL AUDIO GROUP NUMBER
AA_ENTN	AA_ENT NUMBER

FIG. 33

CONTENTS OF S_VOB_ENT (TYPE 4)

FIELD NAME	CONTENTS
S_VOB_ENT_TY	STILL PICTURE VOB ENTRY TYPE
V_PART_SZ	SIZE OF VIDEO PART
A_PART_SZ	SIZE OF ORIGINAL AUDIO PART
A_PB_TM	PLAYBACK TIME OF AUDIO PART
S_AAGN	ADDITIONAL AUDIO GROUP NUMBER
AA_ENTN	AA_ENT NUMBER

FIG. 34

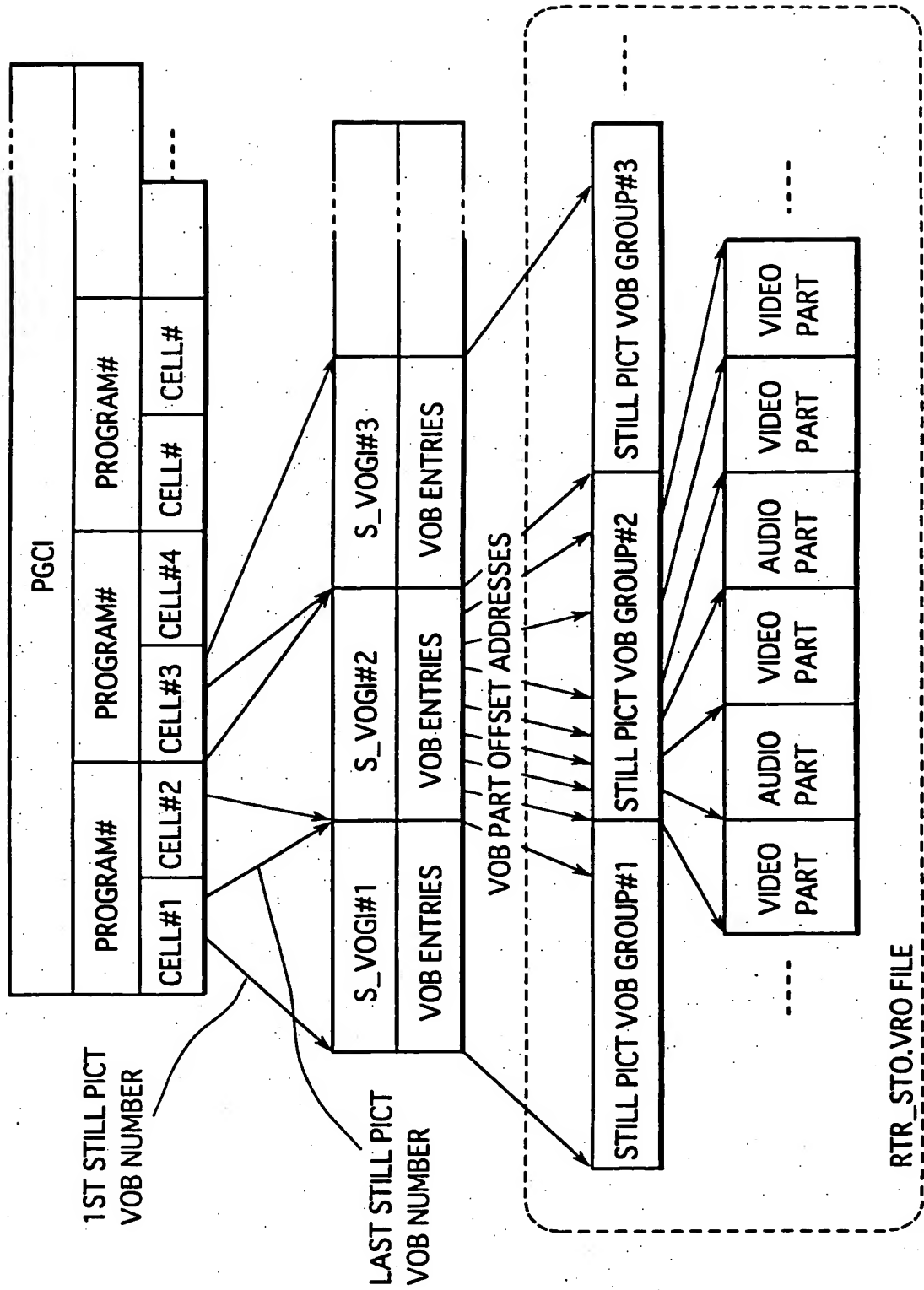
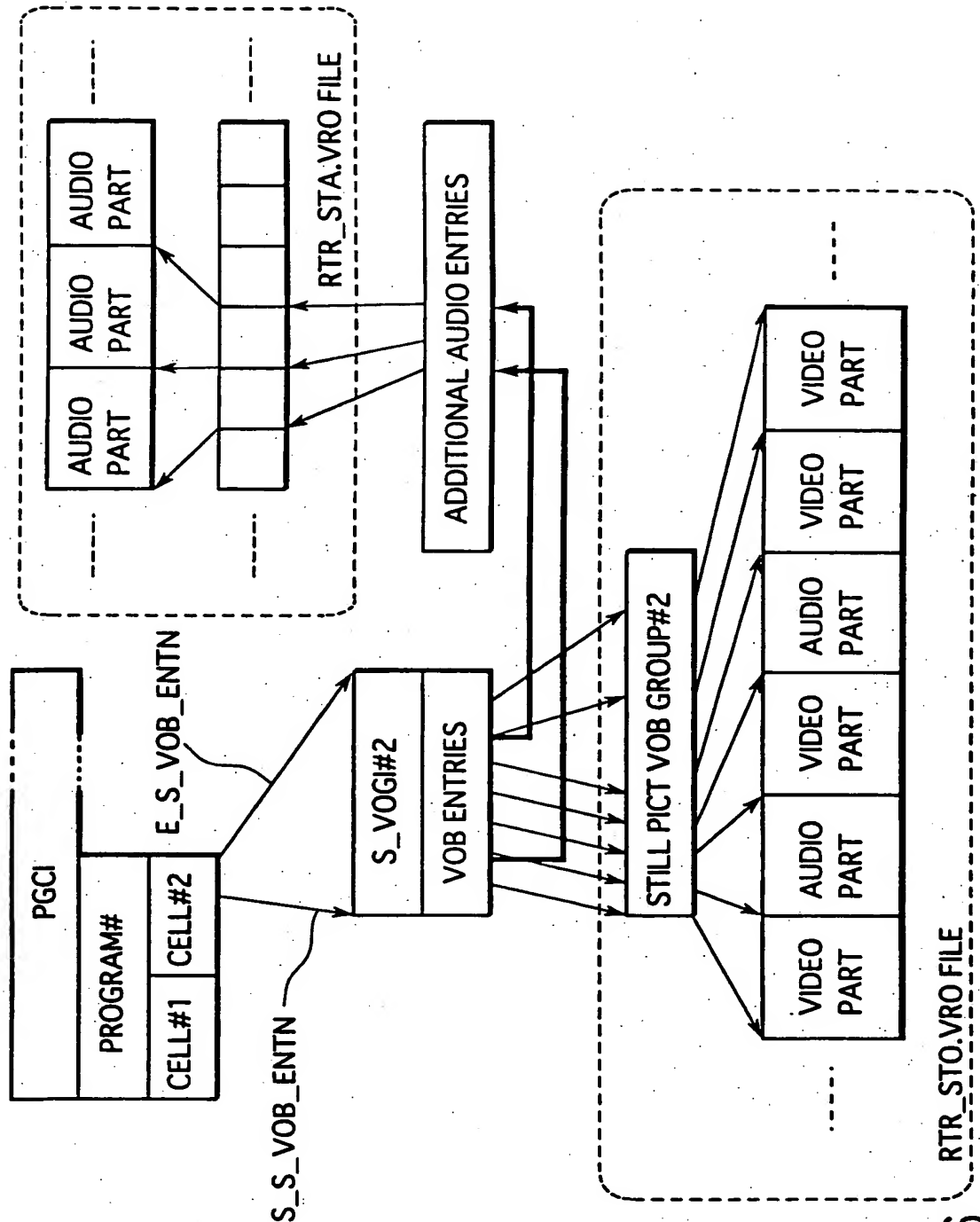


FIG. 35



RTR_STA.VRO FILE

RTR_STO.VRO FILE

FIG. 36

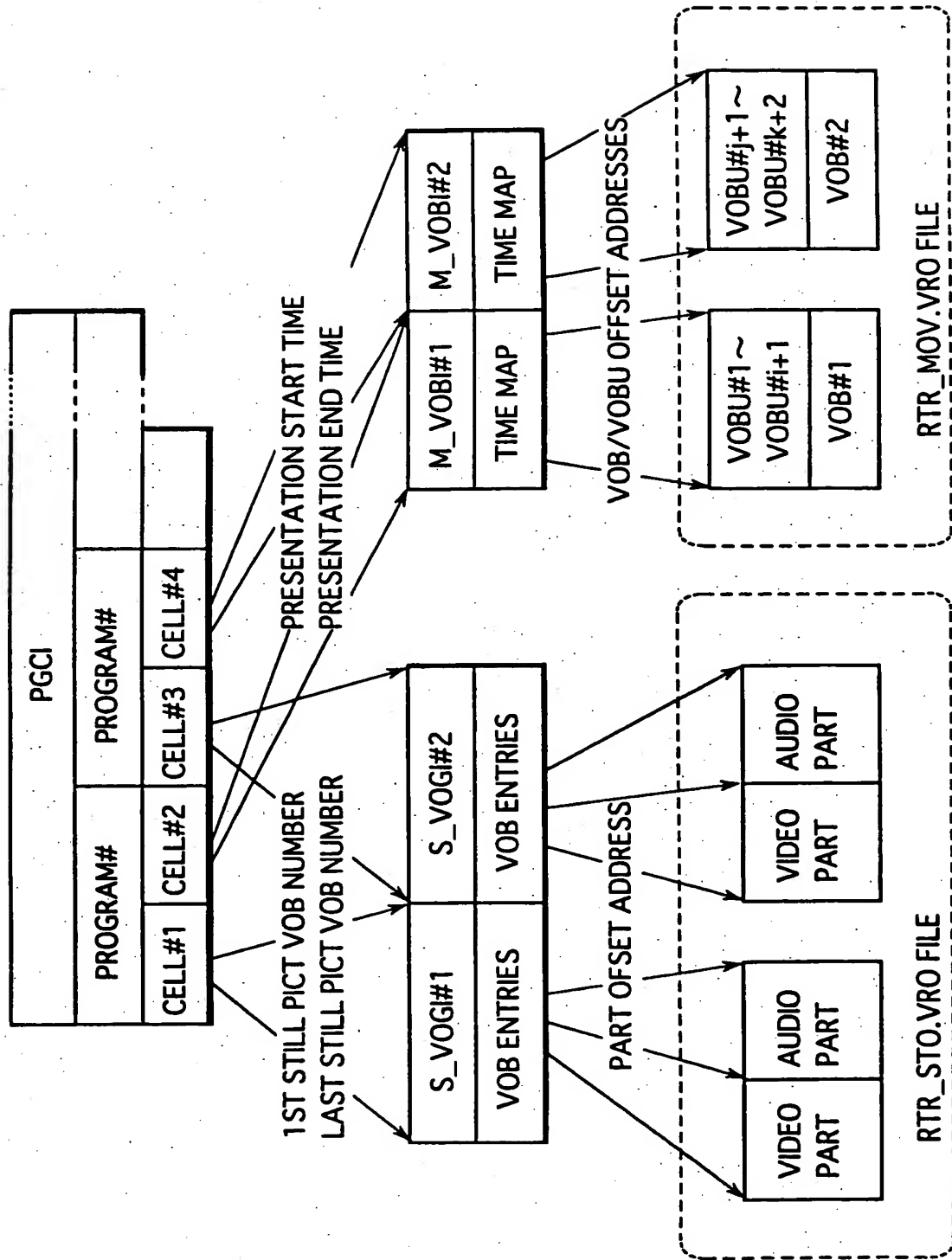


FIG. 37

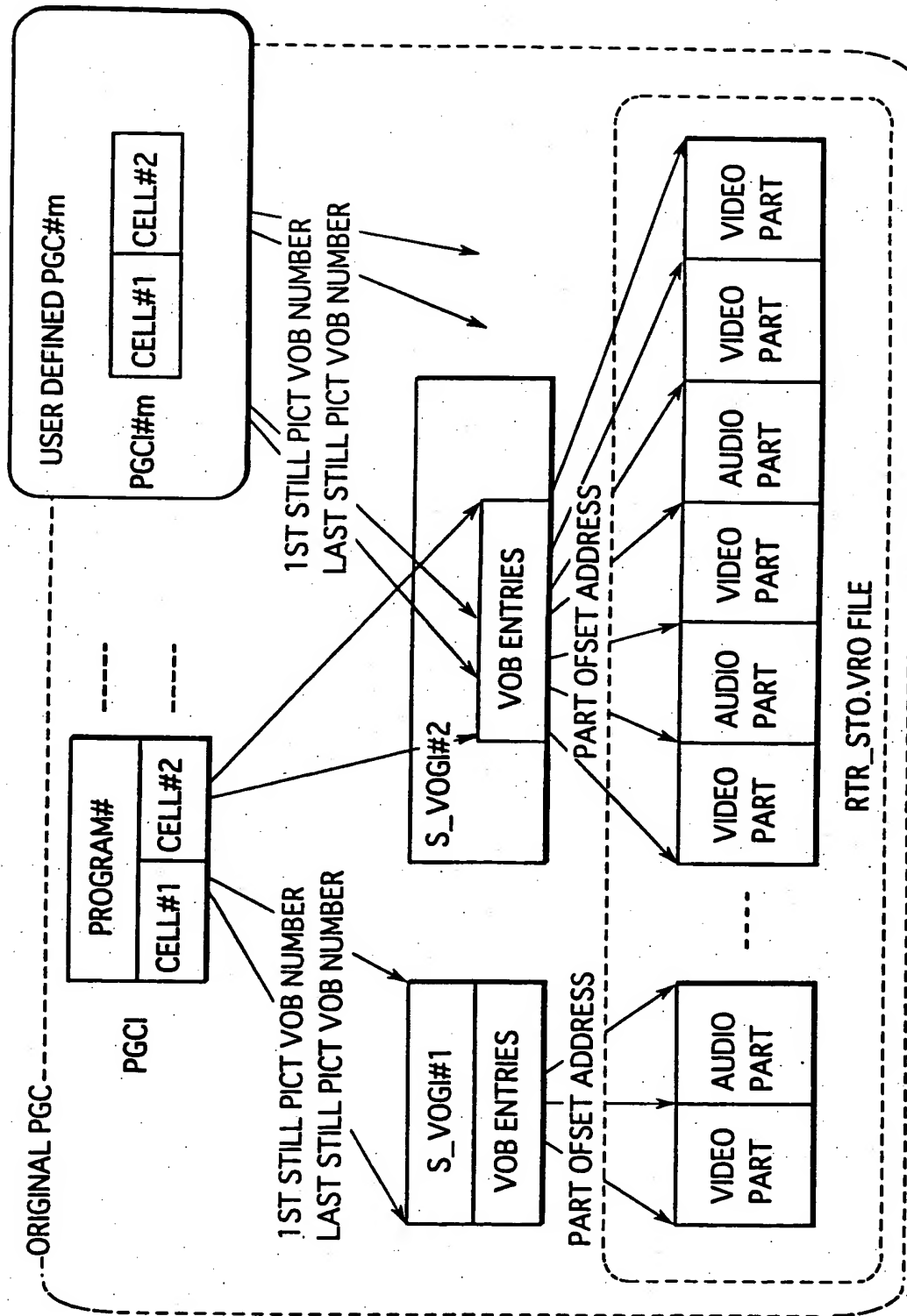


FIG. 38